FCC ID: 2A4WJ-ASRGD001

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

BLE DTS: Antenna Gain: -2 dBi

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
2.402	GFSK	0.96	2	0.491	3
2.440	GFSK	1.45	2	0.495	3
2.480	GFSK	1.39	2	0.499	3

BT DSS: Antenna Gain: -2 dBi

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
2.402	GFSK	1.08	2	0.491	3
2.441	GFSK	1.50	2	0.495	3
2.480	GFSK	1.42	2	0.499	3
2.402	pi/4-DQPSK	1.17	2	0.491	3
2.441	pi/4-DQPSK	1.59	2	0.495	3
2.480	pi/4-DQPSK	1.51	2	0.499	3

Conclusion:

For the max result ≤ 3.0 for 1-g SAR extremity SAR, No SAR is required.